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S/020/60/132/03/34/066 B011/B008

5.3630

AUTHORS:

Lutsenko, I. E., Krayts, Z. S.

TITLE:

Arbuzov's Regrouping of the Vinyl Esters of Phosphorous

and Phenylphosphinic Acids

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3,

pp. 612-614

TEXT: The authors state that the vinyl esters of the phosphorous acid can, as expected, be isomerized only very difficultly to vinyl esters of the phosphinic acids, as compared with the trialkyl phosphites. A 4 to 6-hour heating with methyl iodide was necessary for the isomerization of the various dialkyl vinyl phosphites produced by the authors. The same process takes 20 hours at 100°C when using ethyl- and butyl iodide and is concluded to less than 50%. The reaction had therefore to be carried out in soldered tubes at 120-150°C for 8 hours. In this way the authors obtained the following alkylvinyl esters of the phosphinic acids (Table 1): ethylvinyl ester of the methylphosphinic acid, butylvinyl ester of the butylphosphinic acid, divinyl ester of the methylphosphinic acid, di-iso-

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Arbuzov's Regrouping of the Vinyl Esters of Phosphorous and Phenylphosphinic Acids

S/020/60/132/03/34/066 B011/B008

propenyl ester of the ethylphosphinic acid, ethylvinyl ester of the acethylphosphinic acid, divinyl ester of the benzoylphosphinic acid, and divinyl ester of the phenylphosphinic acid. Furthermore, the addition product of the methyl iodide to the divinyl ester of the last mentioned acid was produced. Alkyldivinyl phosphites are isomerized to divinyl esters of the alkylphosphinic acids only under sharper conditions. Divinyl ester of the ethyl-, propyl- and butylphosphinic acids were obtained by heating of alkyldivinyl phosphites in soldered tubes at 130-160°C (for 8 hours) with alkyl iodide which contains the same radical as the phosphite. When the radical of the halogen-alkyl was a different one, a mixture of the phosphinic-acids-esters developed. Trivinyl phosphite is not isomerized with methyl iodide. Resinification takes place in the soldered tube at 120-125°C. Arbuzov's regrouping thus takes its course in the case of the monovinyl- and divinyl phosphites under splitting off of the alkyl radical. The vinyl radical, however, was split off in no case. Based on these data it could be expected that Arbuzov's regrouping of the divinyl ester of phenylphosphinic acid will also be impeded. A crystalline addition product develops from the

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Arbuzov's Regrouping of the Vinyl Esters of Phosphorous and Phenylphosphinic Acids

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reaction of this ester with methyl iodide. Iodine is precipitated at the heating of this addition product and resinification sets in. Slight heating occurs when dialkylvinyl phosphite and acyl halides are mixed. The reaction is terminated at room temperature within 48 hours. Vinyl esters and α-ketophosphinic acids were produced by distilling off (Table 1). Still sharper conditions are necessary for the reaction of the alkyldivinyl phosphites with acyl halides (benzoyl chloride with butyldivinyl phosphite, for example). There are 1 table and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V.

Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

January 7, 1960, by A. N. Nesmeyanov, Academician

SUBMITTED:

January 6, 1960

Card 3/3

S/020/60/132/04/30/064 B011/B003

5.3630

AUTHORS:

Lutsenko, I. F., Kirilov, M.

TITLE:

Phosphorylated Chlorovinylketones. Primary Products of the

Reaction of Phosphorus Pentoxide With Enclacetates

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4,

pp. 842-845

TEXT: In a previous paper (Ref. 1) the authors described the production of phosphorylated  $\beta$ -chlorovinylketones by the reaction of phosphorus pentachloride with enclacetates. In the present paper they continued to study this reaction and ascertained conditions under which this reaction can be stopped in the primary stage, i.e., in the stage of addition of phosphorus pentachloride to the double bond of the unsaturated ester. 2 moles of PCl<sub>5</sub> are used for one mole of ester (I). The composition of the addition product was proven by the example of the analysis of vinylacetate. Since the products indicated are easily hydrolyzed by atmospheric moisture, and are unstable at room temperature,

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Phosphorylated Chlorovinylketones.
Primary Products of the Reaction of
Phosphorus Pentoxide With Enclacetates

S/020/60/132/04/30/064 B011/B003

they were further treated with sulfur dioxide at low temperature, thus avoiding that they be isolated. Thus, acid chlorides of  $\beta$ -acetoxy- $\beta$ --chloroalkylphosphinic acids were formed. They were sufficiently resistant for isolation in pure state (II). The yields of acid chlorides of the  $\beta$ -acetoxy- $\beta$ -chloroethyl- and of the  $\beta$ -acetoxy- $\beta$ -chloropropylphosphinic acids were 85 and 70 per cent, respectively. At a ratio of enolacetate : PCl5 = 1 : 1 the yield of the acid chloride does not exceed 40% in both cases. This is another indirect proof that the product added to the vinyl acetate and, apparently, also to the isopropenylacetate possesses a structure as shown in (I). The two latter reactions are to be performed at different temperatures: the former at 7-8°, the latter at -25°, since the addition products have a different stability. A similar difference in resistance is shown by the acid chlorides (III) obtained from addition products. The corresponding diethyl ester was obtained by the action of alcohol on the acid chloride of the  $\beta$ -acetoxy- $\beta$ -chloroethylphosphinic acid in the presence of pyridine. By way of hydrolysis, this ester yields

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Phosphorylated Chlorovinylketones. Primary Products of the Reaction of Phosphorus Pentoxide With Enclacetates

\$/020/60/132/04/30/064 B011/B003

phosphonic acetaldehyde by the action of water and by heating within several hours, or within 3 - 4 days at room temperature. The authors failed to obtain the diethylester of  $\dot{\beta}$ -acetoxy- $\beta$ -chloropropylphosphinic acid in the presence or absence of pyridine. In both cases only phosphonic acetone could be obtained. The same process takes place by the action of alcohol on the acid chloride of acetonyl-phosphinic acid in the presence of pyridine. The above reactions substantiate the indicated structure of the carbon radical of the addition products. They further prove that addition occurs in accordance with Markovnikov's law. There are 2 tables and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V.

Lomonosova (Moscow State University imeni M. V.

Lomonosov)

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January 7, 1960, by A. N. Nesmeyanov, Academician

SUBMITTED:

January 6, 1960

Card 3/3

CIA-RDP86-00513R001030920020-4" APPROVED FOR RELEASE: 03/13/2001

S/020/60/135/004/024/037 B0 16/B066

AUTHORS:

Lutsenko, I. F., and Krayts, Z. S.

TITLE:

Phosphoric and Phosphinic Esters of Enols

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 4, pp. 860-863

TEXT: In addition of their papers (Ref. 1) the authors studied the effect of acid chlorides of phosphoric and phosphinic acid upon A-mercurized aldehydes and ketones. They found that the acid chlorides of phosphoric acid do not react with organomercury compounds in ethereal or benzenic medium contrary to the chlorides of acids of trivalent phosphorus. They proved, on the other hand, that salts (NaI, KCl and others) readily split the metal - carbon bond in the mercurized aldehydes and ketones (Ref. 2). The authors used this variant in the case of acid chlorides of phosphoric and phosphinic acid. The salt obtained by dissolving these acid chlorides in pyridine reacts easily, already in the cold, not only with mercury bisacetaldehyde, but also with the organomercury salts of ketones. The ester of phosphoric or phosphinic acid with the enol form of the carbonyl compound is formed in this connection

Card 1/7

Phosphoric and Phosphinic Esters of Enols

S/020/60/135/004/024/037 B016/B066

$$(RO)_2P$$
 (0)  $C1.C_5H_5N + C1H_8CH_2COCH_3 \longrightarrow (RO)_2P(O) \left(OC_{CH_3}^{CH_2}\right) + C_5H_5N \cdot H_8Cl_2$ 

This reaction obtained by the authors permits the formation of phosphoric acid esters with one, with two, and with three unsaturated groups, and of phosphinic acid esters both with one and with two of these groups in a yield of 50 - 85 %. The authors carried out this reaction with  $\alpha$ -mercurized derivatives of the following compounds: acetaldehyde, acetone, diethyl ketone, cyclopentanone, cyclohexanone. Further with the following halogen phosphorus compounds: methyl-, ethyl-, and butyl-dichlorophosphates, diethyl- and dibutyl chlorophosphates, the acid chloride of ethyl phosphinic acid and of ethoxy-ethyl phosphinic acid, and phosphorus oxychloride. It is difficult to isolate the enol esters from the reaction mixture in the presence of the mercury salts, since the latter cause polymerization and resinification. The authors removed these salts in the following manner: the principal amount of the mercury salt which was precipitated after termination of the reaction as a pyridine complex, was filtered off. Hydrogen sulfide was bubbled through the filtrate with pyridine excess:  $Hg_2Cl_2^+ H_2S + 2C_5H_5N \longrightarrow HgS + 2C_5H_5N \cdot HCl$ 

Card 2/7

Phosphoric and Phosphinic Esters of Enols

S/020/60/135/004/024/037 B0 16/B066

Mercuric sulfide and pyridine hydrochloride were filtered, the filtrate was decomposed by distillation. Table 1 gives yields and constants of the resultant enol esters. There are 1 table and 3 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

June 23, 1960, by A. N. Nesmeyanov, Academician

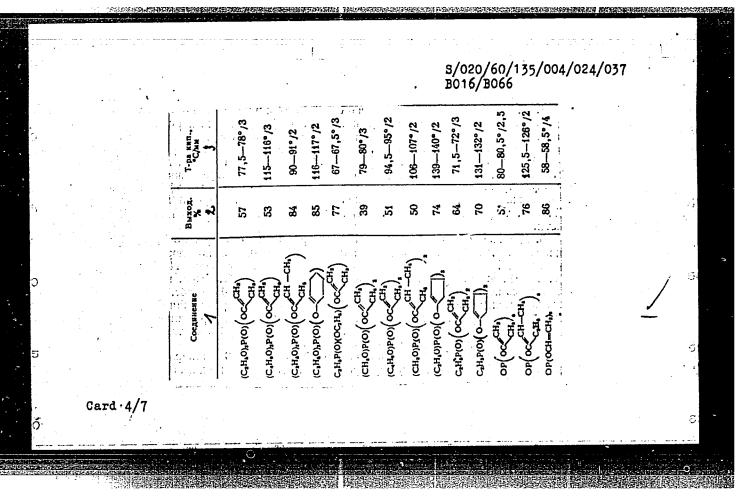
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June 22, 1960

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Legend: 1 - compound, 2 - yield, 3 - boiling point  $^{\circ}$ C/mm Hg, 6 - obtained, and 7 - calculated amount.

Card 7/7

LUTSENKO, I.F.; FONOMAREV, S.V.

Reaction of trialkylalkoxystannanes with ketene. Zhur.ob.khim.
31 no.6:2025-2027 Je \*61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet.
(Tin organic compounds) (Ketene)

LUTSENKO, I.F.; KIRILOV, M.; OVCHINNIKOVA, G.A.

Phosphorylated chlorovinyl ketones. Part 3: Reaction of phosphorus pentachloride with enol esters. Zhur.ob.khim. 31 no.6:2028-2033 Je 161. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Phosphorus chloride) (Enola)

LUTSENKO, I.F.; KIRILOV, M.; POSTNIKOVA, G.B.

Phosphorylated chlorovinyl ketones. Part 4: Primary products of the reaction between phosphorus pentachloride and enol esters. Zhur.ob.khim. 31 no.6:2034-2036 Je \*61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Phosphorus pentachloride) (Enols)

LUTSENKO, I.F.; KIRILOV, M.

Phosphorylated chlorovinyl ketones. Part 5: Products of addition of phosphorus pentochloride to enol esters and their rearrangement to phosphorylated chloro ketones. Zhur. ob. khim. 31 no. 11:3594-to phosphorylated chloro ketones. Zhur. ob. khim. 31 no. 11:3594-(MIRA 14:11)

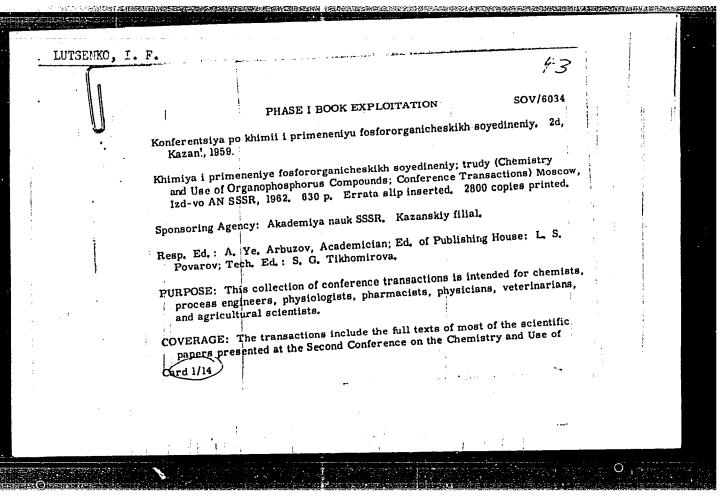
(Enols) (Phosphorus chloride) (Ketones)

LUTSENKO, I.F.; FOSS, V.L.; IVANOVA, N.L.

Reaction of ketene with mercury salts. Dokl. AN SSSR 141 no.5: 1207-1108 D '61. (MIRA 14:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom A.N. Nesmeyanovym.

(Ketene) (Mercury salts)



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Phosphorylated chlorovinyl ketones. Part 6: \$ -Acyloxyalkenylphosphinic acid esters. Zhur. ob. khim. 32 no.1:263-266 Ja '62.

(MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. (Phosphinic acid)

TSVID, A., kand.tekhn.nauk; LUTSEKKO, I.; PIKHAY, G.; SAKHAROV, M.;

ZIODEYEV, P.; DENISEMRO, V.

We get word. Stroitel no.7:7 Jl '61. (MIRA 14:8)

(Construction industry—Technological innovations)

LUTSENKO, I.F.; PONOMAREV, S.V.; PETRIY, O.P.

Reactions of trialkylalkoxystannanes with unsaturated compounds. Zhur.ob.khim. 32 no.3:896-900 Mr '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Tin organic compounds)

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LUTSENKO, I.P., KIRILOV, M.

.Reaction of phosphorus pentachloride with enclacetates.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds) A. YE. AREUZOV, Ed. Publ. by Kazan Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

LUTSENKO, I.F.; KRAYTS, Z.S.

Vinyl and substituted vinyl esters of phosphorous acid. Zhur.ob. khim. 32 no.5:1663-1665 My '62. (MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Phosphorous acid) (Vinyl alcohol)

BAUKOV, Yu.I.; LUTSENKO, I.F.

Esters of trialkylgernylacetic acid. Zhur.ob.khim. 32 no.8:2746-2747 Ag 162. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Acetic acid) (Germanium compounds)

S/079/62/032/011/012/012 D204/D307

AUTHORS:

Baukov, Yu.I., and Lutsenko, I.F.

TITLE:

Synthesis of vinyloxysilanes and their germanium

analogs

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 11, 1962,

3838 - 3839

TEXT: Triethylvinyloxysilane (A), tripropylvinyloxygermane (B) and tributylvinyloxygermane (C) were prepared, in 54, 60 and 54 % yields respectively by the reaction

 $R_3^{MH} + Hg(CH_2C < 0)_2 \xrightarrow{boiling} R_3^{MOCH} = CH_2 + Hg + CH_3^{CHO},$ 

where M is Si or Ge. Intense ir absorption bands corresponding to the C-C bond were observed, at 1640 cm<sup>-1</sup> for A 1618 cm<sup>-1</sup> for B and 1616 cm<sup>-1</sup> for C. A medium-intensity 1700 cm<sup>-1</sup> band was also observed for B and C, indicating the presence of isomers containing the cHO group. The b.p's refractive indices  $(n_D^{20})$  and densities

Card 1/2

Synthesis of vinyloxysilanes ... S/079/62/032/011/012/012 D204/D307

(d<sub>4</sub><sup>20</sup>) were respectively: A-52-54°C/20 mm Hg, 14260, 0.8274; B-88-91°C/7 mm Hg, 1.4565, 1.0177; C-86.5-90°C/1 mm Hg, 1.4580, 0.9879.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomono-Sov)

SUBMITTED: July 23, 1962

FOSS, V.L.; ZHADINA, M.A.; LUTSENKO, I.F.; NESMEYANOV, A.N.

Reaction of ketene with quasiocomplex compounds of mercury.
Zhur.ob.khim. 33 no.6:1927-1933 Je '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Ketene) (Mercury compounds)

# LUTSENKO, I.F.; KIRILOV, M.

Interaction of phosphoric pentachloride with enol esters. Pt. 1 and 2. Godishnik khim 55 no.3:135-187 '60/61 (publ. '62).

1. Katedra po ornaichna khimiia pri Moskovskiia durzhaven universitet M.V. Lomonosov.

Poss, V.L.; KUDINOVA, V.V.; POSTNIKOVA, G.B.; LUTSENKO, I.F.

Derivatives of A-ketophosphinic acids. Dokl. AN SSSR 146 no.5:

(MIRA 15:10)

(Phosphinic acid)

LUTSENKO, I.F.; BAUKOV, Yu.I.; KHASAPOV, B.N.

Esters of A -metalated carboxylic acids. Preparation of esters of trialkylstannyl- and trialkylgermanylacetic acid from esters of mercuri-bis-acetic acid. Zhur. ob. khim. 33 no.8:2724-2727 Ag '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

POSTINKOVA, G.B.; LUTSENKO, I.F.

Reaction of phenylphosphine with organomercury compounds. Zhur.ob. khim. 33 no.12:4029 D 63. (MIRA 17:3)

PONOMAREV, S. V.; BAUKOV, Yu. 1.; LUTSENKO, 1. F.;

Esters of  $\infty$ -metalated carboxylic acids. Esters of dialkystancyllabisacetic acid. Zhur. ob. Khim. 34 no.6:1938-1940 Je '64. (MTRA 17:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

LUTSENKO, I.F.; KRAYTS, Z.S.; PROSKURNINA, M.V.

Preparation of a, B-alkenylphosphoryl halides. Dokl.AN SSSR 148 no.4:846-849 F '63. (MIRA 16:4)

1. Moskovskiy gosudarstvennyy universitet universitet im. M.V. Lomonosova. Predstavleno akademikom A.N.Nesmeyanovym. (Phosphoryl halides)

PONOMAREV, S.V.; LUTSENKO, I.F.

Reactions of  $\alpha$ -metalated organotin ketones and esters. Zhur. cb. khim. 34 no.10:3450-3453 0 '64. (MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.

L 16673-65 EVT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 ESD(gs)/SSD/AFWL RM ACCESSION NR: AP4047651 S/0079/64/034/010/3453/3456

AUTHOR: Baukov, Yu. I.: Lutsenko, I. F.

13

TITLE: Esters of metal-containing carboxylic acids. Esters of dialkylgermanylbis- and dialkylgermanyl-acetic acids

SOURCE: Zhurnal obshchey khimii, v. 34, no. 10, 1964, 3453-3456

TOPIC TAGS: germanium, carboxylic acid, organogermanyl compound

ABSTRACT: Dialkylgermanylbis acetic acid (I) and dialkylgermanylacetic acid (II) were formed by exchange reactions between esters of mercuribisacetic acid (III) and alkylgermanyl hydrides, depending on the reactant ratios: (R =  $n-C_3H_7$ , and  $n-C_4H_9$ ) R<sub>2</sub>GeH<sub>2</sub> + Hg(CH<sub>2</sub>COOCH<sub>3</sub>)<sub>2</sub> — R<sub>2</sub>Ge(H)CH<sub>2</sub>COOCH<sub>3</sub> + Hg + CH<sub>3</sub>COOCH<sub>3</sub>; R<sub>2</sub>GeH<sub>2</sub> + 2Hg(CH<sub>2</sub>COOCH<sub>3</sub>)<sub>2</sub> — R<sub>2</sub>Ge(CH<sub>2</sub>COOCH<sub>3</sub>)<sub>2</sub> + 2CH<sub>3</sub>COOCH<sub>3</sub>. Reaction of equimolar amounts of III with dialkylgermanyl iodide resulted in II:  $(n-C_3H_7)_2$ GeI<sub>2</sub> + Hg(CH<sub>2</sub>COOCH<sub>3</sub>)<sub>2</sub> —  $(n-C_3H_7)_2$ Ge(CH<sub>2</sub>COOCH<sub>3</sub>)<sub>2</sub> + HgI<sub>2</sub>.

Card 1/2

CCESSION NR: AP4047651		<b>3</b>
leduction of I or II with lith ermanium-containing glyco	ium aluminum hydride resulted in	i the corresponding
RaGo(H)CHaCOOCHa LIAHA Re	하시아 아이들이 되었는데 그렇게 하는데 생각에 그 것이 없는데 그리고 하는데 하다.	
RaGe(CIIaCOOCIIa)a LIAIII. Ra	Ge(CII₂CII₂OII)₂	
	I the products are tabulated. The	e compound struct-
ne physical constants of al	enactroscony "The experimental	I work was conducted
with the participation of stu-	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Kl	I work was conducted
res were confirmed by IR with the participation of students	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Kl	I work was conducted
res were confirmed by IR and the participation of student, has: 5 equations and 1 an	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Klable gosudarstvenny*y universitet improvements."	I work was conducted hasapov." Orig.
res were confirmed by IR with the participation of student. has: 5 equations and 1 has: 5 SOCIATION: Moskovskiy tova (Moscow State University)	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Klable gosudarstvenny*y universitet implicated in the state of the state	I work was conducted hasapov." Orig.
res were confirmed by IR and the participation of student, has: 5 equations and 1 an	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Klable gosudarstvenny*y universitet improvements."	I work was conducted hasapov." Orig.
res were confirmed by IR with the participation of student. has: 5 equations and 1 in SSOCIATION: Moskovskiy ova (Moscow State University)	spectroscopy. "The experimental dents I. I. Bocharov and B. N. Klable gosudarstvenny*y universitet implicately)  ENCL: 00	I work was conducted hasapov." Orig.

BAUKOV, Yu.I.; BURLACHENKO, G.S.; LUTSENKO, I.F.

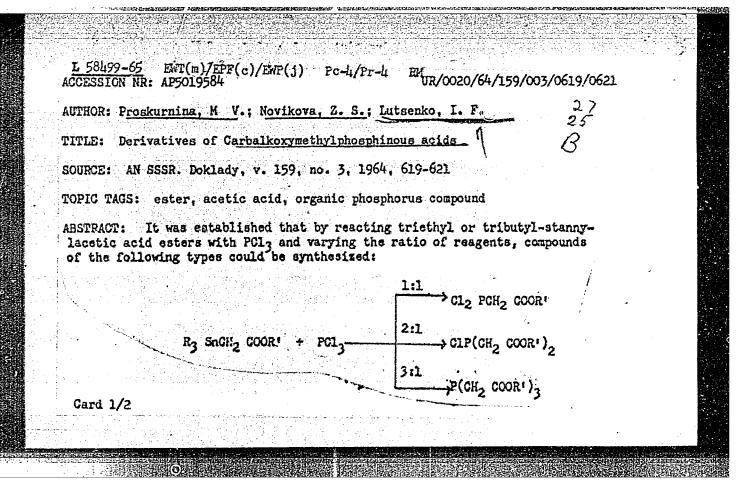
Rearrengement of d-trialkylsiloxyvinylalkyl esters to
trialkylsilylacetic acid esters. Dokl. AN SSSR 157 no.l:
119-121 J1 '64 (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom A.N. Nesmeyanovym.

PROSKURINA, M.V.; NOVIKOVA, Z.S.; LUTSENKO, I.F.

Derivatives of carbalkoxymethylphosphinous acids. Dokl. AN SSSR 159 no.3:619-621 N \*64 (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet. Predstavleno akademikom A.N. Nesmeyanovym.



L 58499-65 ACCESSION NR: AP5019584 The yields of the products were 80-90%. Monoalkyl dichlorophosphites and dialkyl monochlorophosphites reacted similarly: R3 SnCH2 COOR + (R''O)2PCl--- (R''O)2PCH2COOR!. Esters of sbustituted phosphinous acids of this type could also be prepared starting from the chlorophosphines prepared by the reaction with trialkylstannylacetic acid esters. All derivatives of trivalent P that were synthesized underwent exidation in air with spontaneous heating. By passing air through ether solutions of tris-(carbalkoxy)-methylphosphines, the corresponding oxides were obtained. The following compounds were prepared: RFC12, R'PC12, R2'PC1, R3P, R3'P, RP(OEt)2, R'P(OEt)2, R2'POEt, R3PO, R3'PO (where  $R = CH_2COOHe$  and  $R^{\dagger} = CH_2COOEt$ ). Orig. art. has: I table. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University) SUBMITTED: 09Jul64 SUB CODE: OC,GC ENCL: 00 JPRS NR REF SOV: 005 OTHER: OOO

DANILOV, S.N., glaw. red.: ARBUZOV, A.Ye., red.; VVEDENSKIY, A.A., red.; VENUS-DANILOVA, E.D., red.; ZAKHAROVA, A.I., red.; IOFFE, I.S., red.; KAVERZNEVA, Ye.D., red.; LUTSENKO, I.F., red.; MISHCHENKO, K.P., red.; NEMTSOV, M.S., red.; PETROV, A.A., red.; FREYDLINA, R.Kh., red.; SHEMYAKIN, M.M., red.; SHUKAREV, S.A., red.; YUR'YEV, Yu.K., red.

[Biologically active compounds] Biologicheski aktivnye soedineniia. Moskva, Nauka, 1965. 305 p.

(MIRA 18:7)

DANILOV, S.N., glav. red.; ZAKHAROVA, A.I., red.; ARBUZOV, A.Ye., red.; VVEDENSKIY, A.A., red.; VENUS-DANILOVA, E.D., red.; IOFFE, I.S., red.; KAVERZNEVA, Ye.D., red.; LUTSENKO, I.F., red.; MISHCHENKO, K.P., red.; NEMTSEV, M.S., red.; PETROV, A.A., red.; FREYDLINA, R.Kh., red.; SHEMYAKIN, M.M., red.; SHCHUKAREV, S.A., red.; YUR'YEV, Yu.K., red.

[Problems of organic synthesis] Problemy organicheskogo sinteza. Moskva, Nauka, 1965. 323 p. (MIRA 18:8)

PETROVSKAYA, L.I.; BURLACHENKO, G.S.; FEDIN, E.I.; BAUKOV, Yu.I.; LUTSENKO, I.F.

Proton magnetic resonance of esters of metalated (Si, Ge, Sn) acetic acid and O-silyl-O-alkylketene acetals. Zhur.strukt.khim. 6 no.5:781-783 S-0 '65. (MIRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Submitted April 29, 1965.

BAUKOV, Yu.I.; BURLACHENKO, G.S.; LUT. ENKO, I.F. Synthesis of O-silyl-substituted enols and related compounds. Zhur. ob. khim. 35 no.4:757-758 Ap 165.

(MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

CIA-RDP86-00513R001030920020-4" **APPROVED FOR RELEASE: 03/13/2001** 

FOSS, V.L.; BESOLOVA, Ye.A.; LUTSENKO, I.F.

Reaction of enters of antimonous acid with ketene. Zhur. ob.
khim. 35 no.4:759-760 Ap '65.

(MIRA 18:5)

BURLACHENKO, G.S., BAUKOV, Yu.I., LUTSENKO, I.F.

Properties of O-(trialkylsilyl)-O-methyl ketene acetals. Thermal decomposition and reaction with ketene. Zhur. ob. khim. 35 no.53 933-934 My '65. (MIRA 1836)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

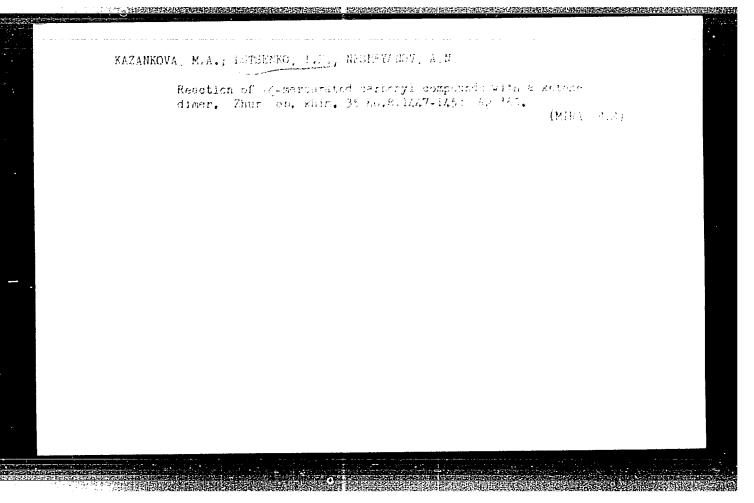
BAUKOV, Yu.I.; BELAVIN, I.Yu.; LUTSENKO, I.F.

Study of O- and C-organometallic isomers. Part 1: Peaction of dialkylhalogermanes and dialkylchlorostachanes with esters of mercury bisacetic acid. Zhur. ob. khim. 35 no.6:1092-1094. Je 165. (MERA 18:6)

BAUKOV, Yu.I.; BURLACHENKO, G.S.; LUTSENKO, I.F.

Study of 0- and C- organometallic compounds. Part 2: Production and reaction of trialkylsilyl- and trialkylgermanylacetic acid esters. Zhur. ob. khim. 35 no.7:1173-1177 Jl '65.

(MIRA 18:8)



BURLACHENKO, G.S.; AVDEYEVA, V.I.; BAUKOV, Yu.1.; LUTSENKO, 1.F.

Reaction of alkoxytrichlorogermanes with ketene. Zhur. ob. khim. 35 no.10:1881 0 '65. (MJRA 18:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

ACC NR: AP6016700		SOURCE CODE: UR/0079/65/035	/012/2201/2202
AUTHOR: Postnikova,	, G. B.; Kostyuk, A. S.;	Lutsenko, T. R.	1012/2204/2201
ORG: Moscow State L universitet)	Iniversity im. M. V. Lon	onosov (Moskovskiy gosudarst	vennyy 26
TITLE: Derivatives	of functionally substit	uted phosphinous acids	
Sounce: Zhurnal obs	hchey khimii, v. 35, no	. 12. 1965. 2204-2207	
nonmetallic organic	rus chloride, ester, car derivative, organic phos	rboxylic ester, phosphinic ac sphorous compound	and the second second second second
ABSTRACT: Result phosphorus pentace adducts of phosphorus propionio, butyri benzoate are pres	s of the study of to chloride with comple norus pentachloride to, and benzoic acid	he reduction of adducts x esters of enols, using with the vinyl esters of s as well as with isopro	penyl.
the acid chloride butyroxy-beta-chl	e vinyl esters of posters of posters of beta-propionyl orethylphosphinous	ropionic and butyric act oxy-beta-chlor- and beta acids were obtained in h	igh W
RCOOCH=CH2	$\overset{\text{2PCl}_5}{\longrightarrow} \left[ \overset{\text{+3+6}^\circ}{\text{RCO}} \right]$	$\begin{array}{c} -\text{CH-CH}_2\text{PCl}_3 \\ \text{Cl} \end{array}^{+\text{POl}_6^-} \frac{\text{P(l}_2)}{3-60}$	)
Card 1/2		UDC: 547.341	Z

ACC NR: AP6016700  RC00-CH-CH <sub>2</sub> PCl <sub>3</sub> + PCl <sub>3</sub> Cl  (1)  In the case of vinyl and isopropenyl esters of benzoic acid the oleavage of hydrogen chloride occurs in the reaction while still benzoyloxpropenylphosphinous acids are correspondingly isolated:  C <sub>6</sub> H <sub>2</sub> C00C= CH <sub>2</sub> + 2PCl <sub>5</sub> \rightarrow C <sub>6</sub> H <sub>5</sub> C00-C-CH <sub>2</sub> PCl <sub>3</sub> +PCl <sub>6</sub> (Pl <sub>2</sub> )  R  Cl  R  Cl  -HCl  -HCl  Compounds type A. for derivatives of phosphorus pentachloride (acid chlorides of beta-benzoyloxy-beta-chlorethyl(propyl)phosphinic acids) are completely stable under the normal conditions and cleave off HCL only with long heating up to 100°. Constants and yields  of all the prepared compounds are presented. [JPRS]  SUB CODE: C7 / SUEM DATE: 20Jan65 / ORIG REF: OO2	L 25608-66	
In the case of vinyl and isopropenyl esters of benzoic acid the cleavage of hydrogen chloride occurs in the reaction while still benzoyloxpropenylphosphinous acids are correspondingly isolated:  C6H5COOC= CH2 + 2PCl5 \rightarrow \bigcup \		
In the case of vinyl and isopropenyl esters of benzoic acid the cleavage of hydrogen chloride occurs in the reaction while still benzoyloxpropenylphosphinous acids are correspondingly isolated:  C6H5COOC= CH2 + 2PCl5 \rightarrow \bigcup \		2
C6H <sub>5</sub> COOC= CH <sub>2</sub> + 2PCl <sub>5</sub> $\longrightarrow$ C <sub>6</sub> H <sub>5</sub> COO-C-CH <sub>2</sub> PCl <sub>3</sub> $\stackrel{+}{}$ PCl <sub>6</sub> $\stackrel{-}{}$ PCl <sub>6</sub> $\stackrel{-}{}$ R  C1  —HCl  C6H <sub>5</sub> COO-C-CH <sub>2</sub> PCl <sub>2</sub> + PCl <sub>3</sub> $\stackrel{-}{}$ C6H <sub>5</sub> COOC=CHPCl <sub>2</sub> R  (A)  (II)  Compounds type A. for derivatives of phosphorus pentachloride (acid chlorides of beta-benzoyloxy-beta-chlorethyl(propyl)phosphinic acids) are completely stable under the normal conditions and oleave off HCL only with long heating up to 100°. Constants and yields of all the prepared compounds are presented. [JPRS]  SUB CODE: O7 / SUEM DATE: 20Jan65 / ORIG REF: OO2	In the case of vinyl and isopropenyl esters of benzoic acid the cleavage of hydrogen chloride occurs in the reaction while still	
Compounds type A. for derivatives of phosphorus pentachloride (acid chlorides of beta-benzoyloxy-beta-chlorethyl(propyl)phosphinic acids) are completely stable under the normal conditions and cleave off HCL only with long heating up to 100°. Constants and yields of all the prepared compounds are presented. [JPRS]  SUB CODE: 07 / SUEM DATE: 20Jan65 / ORIG REF: 002	$ \begin{array}{c} C_{6}H_{5}COOC = CH_{2} + 2PCl_{5} \longrightarrow \begin{bmatrix} C_{6}H_{5}COO - C_{-}CH_{2}PCl_{3} \end{bmatrix} \xrightarrow{+PCl_{6}} \xrightarrow{(Pl_{2})} \\ C_{6}H_{5}COO - C_{-}CH_{2}PCl_{2} \end{bmatrix} + PCl_{3} \xrightarrow{-HCl} \xrightarrow{-HCl} C_{6}H_{5}COOC = CHPCl_{2}R $	
	Compounds type A. for derivatives of phosphorus pentachloride (acid chlorides of beta-benzoyloxy-beta-chlorethyl(propyl)phosphinic acids) are completely stable under the normal conditions and cleave off HCL only with long heating up to 100°. Constants and yields of all the prepared compounds are presented. [JPRS]	**************************************

L 31796-66 EWT(m)/ LAFE RM  ACC NR: AP6021687 - SOURCE CODE: UR/0079/66/036/003/0512/0518]	j
AUTHOR: Burlachenko, G. S.; Khasapov, B. N.; Petrovskaya, L. I.; Baukov, Yu. I.; Lutsonko, I. L.	
ORG: Noscow State University in. M. V. Lomonosov (Moskovskiy gosudarstvennyy Buniversitet)	
TITLE: Investigation in the field of 0- and C-hetercorganic isomers. IV. Reaction of chlorosilanes, with esters of trialkylstannylacetic acid a	
SOURCE: Zhurnal obshehoy khimii, v. 36, no. 3, 1966, 512-518	·
TOPIC TAGS: isomer, oster, acotic acid, chemical reaction, chlorinated organic compound, silane, IR spectrum, nuclear magnetic resonance, spectrum analysis, reaction mechanism	
ABSTRACT: The reaction of esters of trialkylstannylacetic acid with chlorosilanes [SiCl4, CH3SiCl3, (CH3)2SiCl2] was studied. The investigated	
chlorosilanes were found to react readily with the methyl esters of trialkylstannylacetic acids, yielding either the 0- or the C-isomers in high yields, depending upon the time and temperature of the experiment (the 0-isomer rearranges to the C-silylated product upon heating). Replacement of the chlorine atoms by alkyl groups in the 0-derivatives gradually lowers their ability to isomerize. The proton magnetic resonance and infraged spectra of the compounds are discussed. Orig. art. has: 2 figures and 1 table: JPRS/ SUB CODE: 07 / SUEM DATE: 30Jan65 / ORIG REF: 008 / OTH REF: 001 Cord 1/1 LS	

VALUE OF STREET

	L 06509-67 EWT(m)/EWP(j) RM  ACC NR: AP/000483 SOURCE CODE: UR/0079/66/036/006/1129/1133
	POSTNIKOVA, G. B., KOSTYUK, A. S., LUTSENKO, I. F., Moscow State University
	"Beta-phosphinylated Vinyl Esters of Carboxylic Acids" ( Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1129-1133
era.	Abstract: A method was developed for synthesizing chlorides and esters of beta-acyloxyvinylphosphinic acids. Chlorides of beta-acyloxy-beta-chloroethylphosphinous acids were prepared by reduction of adducts of phosphorus pentachloride to vinyl esters of carboxylic acids with white phosphorus. Esterification of these chlorides with alcohol in the presence of a base yielded complete esters of beta-acyloxy-beta-chloroethylphosphinous acids. Derivatives of beta-acyloxyvinylphosphinous acids could not be obtained from the esters; however, dehydrochlorination of chlorides of beta-acetoxy-beta-chloroethylphosphinous acids proceeded readily to chlorides of beta-acyloxyvinylphosphinous acids, in 70-90% yields. Esterification of these chlorides with alcohol in the presence of pyridine yielded complete esters of beta-acyloxyvinylphosphinous acids. Orig. art. has: 2 figures and 1 table.  [JPRS: 37,023]
	TOPIC TAGS: vinyl compound, phosphorus chloride, ester  SUB CODE: 07 / SUBM DATE: 25Jan65 / ORIG REF: 003
	Card 1/1 LS UDC: 547.341

ACC NR: AP7005107

SOURCE CODE: UR/0079/66/036/009/1679/1684

AVDEYEVA, V. I., BURIACHENKO, G. S., BAUKOV, Yu. I., LUTSENKO, I. F., Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvonnyy universitet)

"Studies of O- and C-Organometallic Isomers. V. Reaction Between Germane Halides and Esters of Trialkylstannylacetic Acid and Trialkylalkoxystannanes"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 9, 66, pp 1679-1684

Abstract: In a continuation of a previous investigation, the possibility of using readily available esters of trialkylstannylacetic acid in the reaction with germanium halides was established. This is a convenient method for the synthesis of alkoxygermanes, because it provides a rapid and easy way of substituting the halide atoms attached to the germanium atom with the corresponding alkoxy groups. The yields of alkoxygermanes are 70-95%. The physical constants and IR spectra of the methyl ester of trimethoxygermanylacetic acid synthesized by this method were found to be in agreement with those of the same ester when synthesized by reacting the methyl ester of tributylstannylacetic acid with trimethoxychlorogermane. Orig. art. has: I figure, 6 formulas and 1 table. [JPRS: 38,970]

TOPIC TAG: organotin compound, organogermanium compound, IR spectrum

SUB CODE: 07 / SUBM DATE: 21Jun65 / ORIG REF: 006 / OTH REF: 006

Card 1/1

UDC: 547.469:546.289.811:541.62

ACC NR:	AP7003118	SOURCE CODE: UI	R/0079/66/036/007/1348	/1348
AUTHOR:	Ponomarev, S. V.;	Rogachev, B. G.; Lutsenko, I. F.	e Burna	
ORG: Mo	scow State Univers	sity im. M. V. Lomonosov (Moskovsk	kiy gosudarstvennyy	
	Synthesis of vinyl	oxystannanes 1		
SOURCE:	Zhurnal obshchey	khimii, v. 36, no. 7, 1966, 1348		
TOPIC TA	GS: vinyl compoun	nd, organic synthetic process, org	ganotin compound	
isobuty previous are for Dropwise aldehyd (beta,be and tri and pro Reactio	ric and isovaleric sly undescribed organd instead of the eaddition of trial eproduced exother eta-dimethyl)-viny propyl(beta, beta-diton magnetic resonment of triethyl(beta	n of trialkylalkoxystannanes with aldehydes, probably as a result ganotin O-derivatives of the enol expected alpha-stannylated carbo lkylmethoxystannane to the enolat mic reactions, yielding vinyloxys loxystannane, triethyl(beta-isoprimethyl)vinyloxystannane. The in ance spectra of the compounds obt, beta-dimethyl)vinyloxystannane we O-organotin derivative. [JPRS:	of steric hindrances, form of the aldenydes only compounds. e of the corresponding tannanes: triethyl-copyl)vinyloxystannane, afrared, ultraviolet, ained are discussed.	
SUB CODE	E: 07 / SUBM DAT	TE: OSJan66 / ORIG REF: OOL ,	/ OTH REF: OOL	
Card 1/1	<u>,                                      </u>		UDC: 547.35	9075
	TENTES SERVICES OF SERVICES		. 0	

AP7012427 ACC NR:

SOURCE CODE: UR/0079/66/036/010/1863/1864

Kudinova, V. V.; Foss, V. L.; Lutsenko, I. F. AUTHOR:

ORG: Noscow State University im. N. V. Lomonosov (Hoskovskiy gosudarstvennyy universitet)

TITLE: New methods of synthesizing functionally substituted organic arsenic derivatives

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1863-1864

TOPIC TAGS: acetic acid, organic arsenic compound

SUB CODE: 07

The authors developed a number of methods for the preparation of alpha-arsenated ketones, esters, and amides of acetic acid. The first repreta ABSTRACT: sentative of alpha-arsenated ketones -- phenyldi (butanone-2-yl-1(arsine) nd-su was prepared by boiling phenylarsenic sulfide with mercuribis-methyl ethyl cou ketone in xylene. The methyl ester of di(carboxymethyl)phenylarsine was prehe pared 1) by heating phenylarsenic sulfide with the methyl ester of mercuribias acetic acid and 2) by heating phenyldichloroarsine with the methyl ester of triethylstannylacetic acid. Other esters of di(carh xymethyl)-phenylarsines were prepared analogously. The diethylamide of dipropylarsylacetic acid was

9327 1376

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BABADZHANOVA, Vera Ivanovna; KAMINSKIY, Yuriy Konstantinovich; KIYSHNIKOV, Feder Leont'yevich; UJTSEHKO, Illarion Grigor'yevich; FILETSKIY, Valerian Aleksandrovich; SOLOVEYCHIK, Mikhail Zakharovich; KOLTUNOVA, M.P., red.

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[Passenger's manual] Spravochnik passazhira. Moskva, Transport, 1965. 375 F. (MIRA 18:8)

PILETSKIY, V.A.; SOLOVEYCHIK, M.A.; KLYSHNIKOV, F.L.; BABADZHANOVA, V.I.;
LUTSENKO, I.G.; KAMINSKIY, Yu.K.; FRIDMAN, M.I.; KARPOVA, N.L.,
red.; BURROVA, Ye.N., tekhm. red.

[Passenger's handbook] Spravochnik passazhira. Moskva, Transzheldorizdat, 1962. 367 p. (MIRA 15:6)

(Transportation—Timetables)

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Bibliography 14	5				
SUB CODE: NP	Submitted:	14Apr65	NO REF	sov: 106	
OTHER: 040					

LUTSENKO, I. M.

Lutsenko, I. M. and Terekova, Ye. N. "Rationalization of Methods for Measuring Discharges of Suspended Sediments," (Socialist Science and Engineering)

Socialist Science and Engineering)

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Socialist Science and Engineering)

Socialist Science and Engineering)

Socialisticheskaya nauka i tekhnika no 4, 1937.

ACC NR: AP 7001723

SOURCE CODE: UR/0048/66/030/012/1930/1934

AUTHOR: Vasil'yev, V.P.; Lutsenko, I.M.

ORG: none

TITLE: Radioactive tracer investigation of the evaporation of barium oxide from different substrates / Report Twelfth All-Union Conference on the Physical Fundamentals of Cathode Electronics held at Leningrad, 22 - 26 Oct. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 12, 1966, 1930-1934

TOPIC TAGS: evaporation, barium, barium oxide, cathode, tracer study

ABSTRACT: The authors have employed radioactive Ba<sup>140</sup> as a tracer to investigate evaporation of Ba and BaO from barium-strontium-calcium oxide cathodes on nickel bases and from barium oxide cathodes on platinum, nickel, and molybdenum bases. The 5 mm diameter disk cathode containing Ba<sup>140</sup> was mounted below a rotatable molybdenum anode and the radioactivities of different parts of the anode were measured after exposure for different times to the lot cathode. Attemps to make use of the supplementary adsorption of radioactive 1<sup>131</sup> by adsorbed Ba to distinguish between evaporation of Ba and BaO from nickel base cathodes failed because of competition for the I<sup>131</sup> by adsorbed nickel originating in the cathode base. The other base materials did not significantly adsorb iodine, however, and for these bases the Ba and BaO

Cord 1/2

ACC NR: AP 7001723

evaporation rates were separately determined. The evaporation rate decreased rapidly with time and approached an equilibrium rate which in the case of the Ba-Sr-Ca cathode was reached after about 16 hours at 800° C, 5 hours at 900°, and 3 hours at 1000°. The evaporation rate was proportional to exp ( - E/kT), where T is the temperature and E/k = 19 000°. This value of E/k is not far from that found by B.P.Nikonov and N.G.Otmakhova (Zh. fiz. khimii, 35, No.7, 1494 (1961)). The actual BaO evaporation rates were in all cases lower than those found by other investigators it is suggested that this may be due to the high density of the present coatings. The BaO evaporation rate was lowest from the Pt base (or, at least 10000, from the Ni base) and highest from the Mo base. The evaporation rate of excess (uncombined) Ba from the Mo base also increased with increasing temperature. Anomalous changes in the excess Ba evaporation rate at fixed temperature were noted and are ascribed to side effects. The fact that excess barium appears on the active molybdenum base is not subject to doubt, but the mechanism of the ineraction between the base and the oxide is not understood. The authors thank B.P.Nikonov for suggesting the topic and for assistance with the work. Orig.art. has: 1 formula, 4 figures and 2 tables.

SUB CODE: 20 SUBM DATE: None ORIG. REF: 010 OTH REF: 001

Card 2/2

# "APPROVED FOR RELEASE: 03/13/2001 CIA-RD

CIA-RDP86-00513R001030920020-4

1c ) AUTHOR:

Lutsenko, I. Ye.

sov/155-58-3-14/37

-TITLE:

Bounded Operators Commutating With a Linear Second Grder Differential Operator (Ogranichennyye operatory, perestanovochnyye s lineynym differential hym operatorom vtorogo poryadka)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 3, pp 75-78 (USSR).

ABSTRACT:

Theorem: In order taht a linear bounded operator 0 commutates with the operator  $L_0y=y''$  it is necessary and sufficient that 0 is a linear combination of  $P_+$ ,  $P_-$  and  $P_x$ :

$$P_{\pm} f(x) = \frac{1}{2} [f(x) \pm f(-x)], P_{x} f(x) = \int_{-x}^{x} f(t) dt.$$

Theorem: In order that 0 commutates with Ly = y"-q(x)y,  $q(x) \equiv \overline{q(x)} \in L^{\binom{1}{1}}(-1,1)$  it is necessary and sufficient that 0 is a linear combination of  $Q_+$ ,  $Q_-$ ,  $Q_x$ :

Card 1/2

sov/155-58-3-14/37 Bounded Operators Commutating With a Linear Second Order Differential Operator

$$Q_{\pm} = WP_{\pm}W^{-1}, \quad Q_{x} = WP_{x}W^{-1}, \quad W[f] = f(x) + \int_{-|x|}^{x} A(x,t)f(t)dt$$

where A(x,t) is a real bounded kernel. Theorem: If  $q(-x) \equiv q(x)$ , then  $U = e^{i\alpha} E_{+} \Theta e^{i\beta} E_{-}$  is the general form

of a unitary operator commutating with L;  $\alpha, \beta$  real constants, E, E unit operators in the subspaces of the even and odd

functions respectively.

The last theorem is the application of theorem 3 to involutions. The author thanks M.G.Kreyn and M.S.Livshits for advices.

ASSOCIATION: Odesskiy gidrometeorologicheskiy institut (Odessa Hydrometeorological Institute)

SUBMITTED: April 28, 1958

Card 2/2

68014

16(1) 16,4600

Lutsenko, I.Ye.

SOV/155-58-6-15/36

AUTHOR:

TITLE:

On Involutions of Linear Operators ,

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,

1958, Nr 6,pp 99-103 (USSR)

ABSTRACT:

Let J be involution operator in the Hilbert space H, i.e. (Jf, Jg) = (f, g) and  $J^2f = f$  for all  $f,g \in H$ . The isometric operator V is called J-isometric, if  $J V J = V^{-1}$ . An operator T is called J-real, if J T J = T . If the adjoint operator  $T^*$  exists and if J T J =  $T^*$ , then T is called J - selfadjoint. In the present paper the author gives necessary and sufficient conditions that an isometric (symmetric) operator be J-isometric (J-real). Altogether there are seven theorems and one lemma, e.g. :

Theorem 1a : If V is J-isometric, then among its characteristic matrix functions there are symmetric ones, and inversely: if there is one symmetric among the characteristic matrix-functions

of an isometric operator, then the operator is J-isometric.

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68014

On Involutions of Linear Operators

SOV/155-58-6-15/36

Let the operator L be defined by Ly = Ly" + q(x)y and y(-a) = y'(-a) = 0 in  $L^{(2)}$  (-a,a) where  $\overline{q(x)} = q(x) \in dL^{(1)}$  (-a,a). Theorem 5: If q(x) is even and if  $J_1f(x) = \overline{f(-x)}$ , then it is  $J_1 L J_1 = L^*$ . Inversely: If it exists an involution J, so that  $J L J = L^*$ , then q(x) is even and  $J = e^{i\alpha}J_1$ , where  $\alpha = 0$  const is real. The author thanks M.I. Livshits for advices. There are 7 references, 6 of which are Soviet, and 1 American.

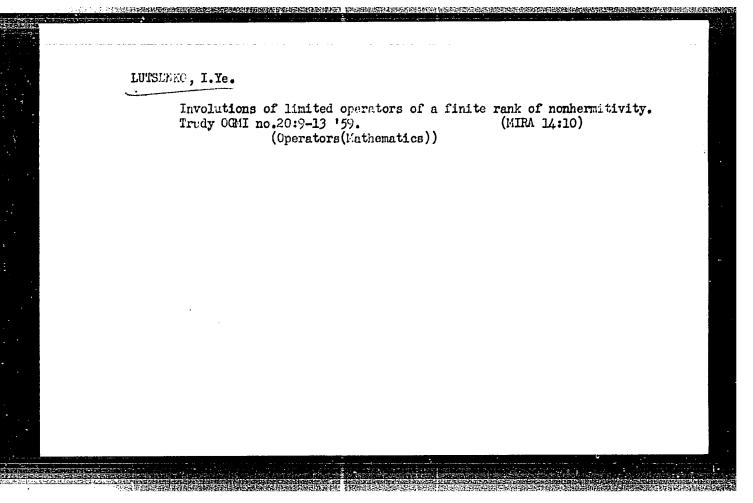
ASSOCIATION: Odesskiy gidrometeorologicheskiy institut (Odessa Hydrometeorological Institute)

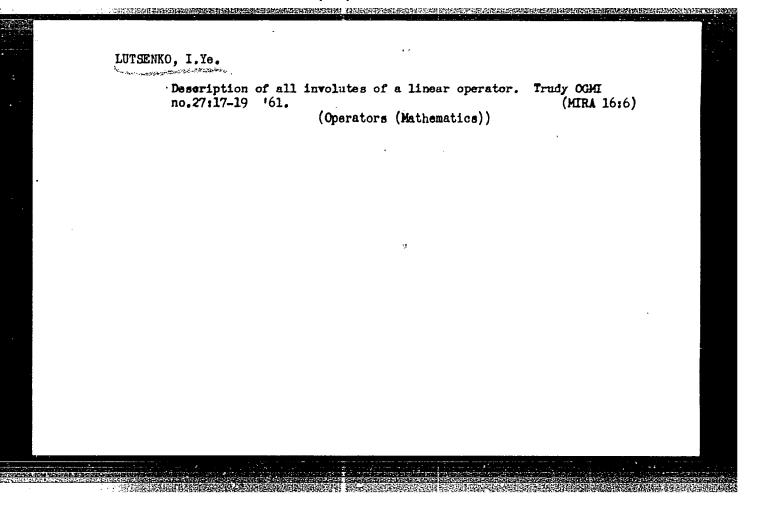
SUBMITTED: July 29, 1958

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920020-4"

15





Gedicii, V.1.; Lutsenko, 1.10.

Representation of a unitary operator on the product of two involutions. Usp. rat. muk 20 no.6164-65 P.D \*65.

(MITA 18:12)

1. Submitted Fob. 27, 1965.

107-57-4-11/54

AUTHOR: Lutsenko, K., Chairman of the Board of the Sverdlovsk Oblast DOSAAF radio club, and Dedyulin, I., a member of the Board of the Radio Club

TITLE: A Result of Concerted Work (Resul'tat druzhnoy raboty)

PERIODICAL: Radio, 1957, Nr 4, pp 12-13 (USSR)

ABSTRACT: On the occasion of the 30th anniversary of DOSAAF, the Sverdlovsk Radio Club was awarded the "Za aktivnuyu rabotu" (for efficient work) badge. Membership in the Sverdlovsk radio club is over 450. This is one of the oldest clubs of the USSR. Many of its members, like Kozlovskiy, Dedyulin, Portnyagin, Znamenskiy, Zolotin, and others, took part in the defense of the USSR during World War II and were distinguished with high State awards. Eight branch offices of the Sverdlovsk radio club are mentioned in the article. Considerable attention is paid to the training of radio operators and radio technicians. Margarita Karavayeva, who works as a radio operator with the merchant fleet, Kamchatka, is an alumna of the Sverdlovsk Radio Club. Old short-wave hams, like Zolotin (UA9DP), Kozlovskiy (UA9CF), and Blokhintsev (UA9CL), have been on the air since 1927 in Sverdlovsk. During the thirty years of their activities, they have established tens of thousands of

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107-57-4-11/54

### A Result of Concerted Work

two-way contacts with all continents and with many countries of the world. Of the younger radio hams, Semenov (UA9DN), Os mushin, Vyshinsky, Kozlov, and Pervushin are noted. Women radio hams Peresadina (UA9DF) and Semenova (UA9DA) have their own radio stations. The latter won first prize in the 1955 women's contest. A considerable development in ultrashort-wave radio amateurism is noted. There were no ultrashort-wave stations in Sverdlovsk oblast in 1946. There were fifty-nine individually owned and ten collectively owned ultrashort-wave stations as of December, 1956. Regular two-way radio communications on 38-40 mc, over distances of 1,500 km and more, have been established with Kaliningrad, Petrozavodsk, L'vov, Stanislav, Shaulyay, Vitebsk, Tashkent, and other cities in the USSR. There were 204 exhibits built by the members of the Sverdlovsk club and displayed at the oblast radio amateur exhibition in 1956; eighty-two of them were cited and awarded various prizes. Recently, a Bulgarian engineer, Nikolov, asked for a description of the device built by a Sverdlovsk radio amateur, Kolosov. The device, which helps in the balancing of rotors for electrical machinery, was actually used by Nikolov in one of the Bulgarian factories. Other radio amateurs cited in the article are

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107-57-4-11/54

# A Result of Concerted Work

Mironov, in the city of Nizhnyaya Tura, Unzhin, in the Ligh School Nr 39, and Volodin, in Uralelektroapparat actory.

There are four photos: (upper) A. Portnyagin (UA9CC), assistant professor at the Ural Politechnical Institute; V. Usol'tsev (070003), one of the first ultrashort-wave hams of Sverdlovsk; and V. Semenov (UA9DN), master of radio amateurism. Tishchenko (center) is explaining the construction of a radio station, Kamenets-Ural'sk.

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SOV/107-59-4-9/45

. AUTHOR:

Lutsenko, K., Chairman Amateur Radio Stations for the Villages (Selam -

TITLE:

radiolyubitel'skiye radiostantsii)

Radio, 1959, Nr 4, pp 10 - 11 (USSR)

PERIODICAL: ABSTRACT:

The members of the Sverdlovsk DOSAAF Radio Club pledged to set up 400 short-wave and ultrashort-wave amateur stations in rural areas by 1960. the members of other DOSAAF radio clubs in the Urals to support this effort. The goal is to have at least one short-wave or ultrashort-wave station at all large kolkhozes, sovkhozes and district centers. Longtime short-wave amateurs, among them K. Kozlovskiy (UA9CF), S. Zolotin (UA9DP), A. Blokhintsev (UA9CL), A. Portnyagin (UA9CC) and R. Unzhin (RA9CAA) will be a verileble for consultation and have plagged to train available for consultation and have pledged to train one new radio amateur each. Simultaneously with this program, the operators of individual and group radio stations increased their effort in improving

Card 1/2

SOV/107-59-4-9/45

Amateur Radio Stations for the Villages

There is 1 photograph. existing equipment.

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ASSOCIATION: Sverdlovskiy/radioklub DOSAAF (Sverdlovsk Oblast' DOSAAF Radio Club)

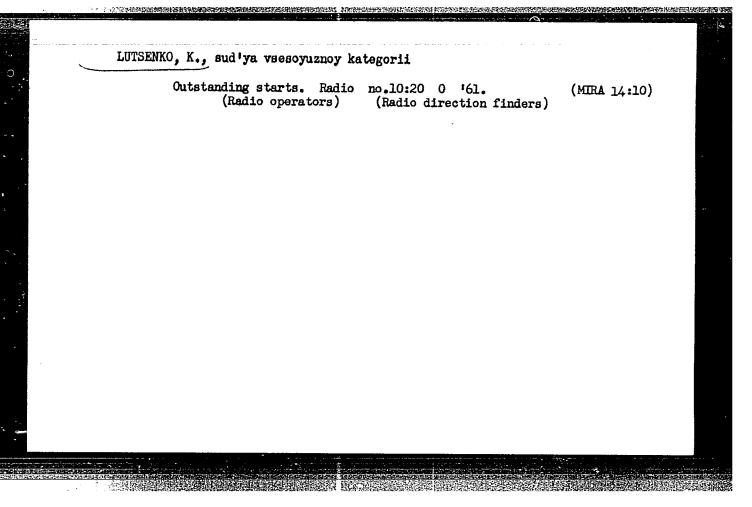
Card 2/2

CIA-RDP86-00513R001030920020-4" **APPROVED FOR RELEASE: 03/13/2001** 

LUTSENKO, K., glavnyy sud ya sorevnovaniy

Radio direction finding. Radio no.9:8-9 S '60. (MIRA 13:10)

1. III-i Vsesoyuznyye sorevnovaniya radiosportsmenov "Okhota na lis."
(Radio direction finders)



# LUTSENKO, K. A headquarters of the radio amateurs. Redio no.9:10-11 S '62. (MIRA 15:9) 1. Predsedatel' Sverdlovskoy oblastnoy sektsil radiosporta. (Radio clubs) (Radio operators)

KAZANSKIY, N.; LUTSENKO, K., sud'ya vsesoyuznoy kategorii

Some results and beneficial lessons. Radio no.10:18-19 0 162. (MIRA 15:10)

1. Predsedatel' sportivnoy komissii Federatsii radiosporta SSSR (for Kasanskiy). 2. Predsedatel' Sverdlovskoy oblastnoy sektsii radiosporta (for Lutsenko).

(Radio operators) (Amateur radio stations)

LUTSENKO, K., sud'ya vsesoyuznoy kategorii

Are one hundred and fifty participants too few for the all-Union competitions? Radio no.12:11-12 B '62. (MTRA 16:3) (Radio operators) (Amateur radio stations)

SOBIYEVA, O.B.; SHVETSOVA, V.P.; LUTSENKO, L.A.; SHVAL'BE, A.L.

Influence of infusions of red pepper and mustard on the reflex phase of gastric secretion. Fiziol. zhur. 17 no.6:758-763 Je '61.

(MIRA 15:1)

1. From the Department of Physiology Paedigogical Institute, Riazan. (STOMACH\_SECRETIONS) (CAPSICIN\_PHYSIOLOGICAL EFFECT)

(MUSTARD\_PHYSIOLOGICAL EFFECT)

MOVIKOV, B.P.; KHWALENSKAYA, O.B.; HHTSENKO, L.A.; KOCHEROV, I.V.

Experience in the control of erysipeloid in a meat combine. Zhur.

mikrobiol., epid. i ismin. 41 no.12:110-112 D '64.

(MHA 18:3)

1. Ivanovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

### LUTSENKO, L.I.

Methodology of separate collection of saliva under the effect of conditioned and unconditioned stimuli. Fiziol. zhur. [Ukr.] 11 no.6:836-838 N-D '65. (MIRA 19:1)

l. Kafedra normal'noy fiziologii Kiyevskogo meditsinskogo instituta im. akademika Bogomol'tsa.

LOSEV, I.P.; SMIRNOVA, O.V.; LUTSENKO, L.M.

Synthesis of isoalkyl esters of & chloroacrylic acid. Trudy MERTI no.29:17-25 '59.

(Acrylic acid)

5(1,3) AUTHORS: SOV/153-2-4-23/32 Losev, I. P., Smirnova, O. V., Bodnar, E., Lutsenko, L. M.,

Konazhevskiy, A.

TITLE:

Synthesis of  $\alpha$ -Chloroacrylic Acid Esters

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 4, pp 589 - 593 (USSR)

ABSTRACT:

A report on this paper was given at the All-Union Conference on "Ways of Synthesis of Initial Products for the Production of High Polymers" which took place in Yaroslavl' from September 29 to October 2, 1958. Among the polymer synthetics, gaining more and more importance, the acryl derivatives are outstanding because of their many valuable properties. On the other hand, polymers obtained from the derivatives of acrylic and methacrylic acid esters show considerable shortcomings such as little resistivity to heat, wear, and crack formation. One of the ways of eliminating these shortcomings is polymer production on the basis of the esters mentioned in the title. Only  $\alpha$ -substituted esters can be used (Refs 1,2). After giving a survey of publications (Refs 3-9), the authors state that the synthesis of the esters mentioned in the title in the presence of concentrated  $H_2SO_4$  and

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Synthesis of  $\alpha$ -Chloroacrylic Acid Esters

SOV/153-2-4-23/32

alcohol is of high practical interest (because the initial substances triethylene chloride and formaldehyde are easy to obtain) (Refs 11,12). In the paper under review, publication data on the synthesis of methyl esters were taken into consideration, and the way of synthesis of other esters (ethyl, n.propyl-, isopropyl-, n.butyl-, isobutyl-, isoamyl-, and cyclohexyl-ester) were investigated. The synthesis of the acid mentioned in the title with an extended carbon chain has been little described in publications (Ref 4). Acrylic acid ester, acrylonitrile, and triethylene chloride were used as raw materials. Starting from the former, any esters can be synthesized in two stages: a) synthesis of the ester of  $\alpha, \beta$ -dichloropropionic acid, b) dehydrochlorination of dichloro derivatives obtained from propionic acid by means of various separating agents. C o n c l u s i o n s: 1) In the chlorination of acrylic acid esters by means of gaseous chlorine in the presence of dimethyl formamide, corresponding esters of  $\alpha$ ,  $\beta$ -dichloropropionic acid are formed with a yield of more than 90% (of the theoretical yield). 2)  $\alpha$ ,  $\beta$ -dichloropropionitrile was formed by direct chlorination of acrylonitrile under the same conditions. This method of chlorination is new.

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Synthesis of α-Chloroacrylic Acid Esters

SOV/153-2-4-23/32

3)Preparation of esters of the acid mentioned under 1) from the substance mentioned under 2) gives a yield of up to 75%, it is convenient, and interesting with regard to waste utilization of acrylonitrile production. 4) By means of chlorination, saponification, and esterification of acrylonitrile, various esters of dichloropropionic acid can be obtained in one process (yield up to 80%). 5) Sodium acetate proved to be the best separating agent in dehydrochlorination of the ester of  $\alpha$ ,  $\beta$ -dichloropropionic acid (yield of 80%). 6) Various esters can be obtained in the preparation of the esters of  $\alpha$ -chloroacrylic acid from triethylene chloride and formaldehyde in the presence of the respective alcohol and  $H_2SO_4$ . The ester yield decreases with increasing chain length of the alcohol radical. No esters are formed if isoamyl- and cyclohexyl alcohol are used. There are

formed if isoamyl- and cyclohexyl alcohol are used. There are 2 figures, 1 table, and 12 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

Card 3/3

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LOSEV, I.P.; SETEMOVA, O.V.; BOEF R, E.M.; LUTSENKO, L.M.; KOMAZHEZEKIY, A.S.

Polymerization of a-chloroacrylic acid esters. Izv.vys.ucheb. zav.;khim.i khim.tekh. 4 no.3:471-476 '61. (MIRA 14:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva, kafedra tekhnologii vysokomolekulyarnykh soyedineniy.

(Acrylic acid) (Polymerization)

EWT(m)/EPA(s)-2/EPF(c)/EMP(v)/EMG(v)/SPF(n)-2/T/EMP(j)/EPR/EPA(bb)-2/EWT(m)/EPA(s)-2/EPF(c)/EMP(v)/EMG(v)/SPF(n)-2/T/EMP(j)/EPR/EPA(bb)-2/EWT(m)/EPA(s)-2/EPF(c)/EMP(v)/EMG(v)/SPF(n)-2/T/EMP(j)/EPR/EPA(bb)-2/EWT(m)-2/T/EMP(j)/EPR/EPA(bb)-2/EWT(m)-2/T/EMP(j)/EPR/EPA(bb)-2/EWT(m)-2/Pc-4/Pe-5/Pr-4/Ps-4/Peb. 7t-10/ 14-4 Ws (Ad/ 7M) TATIVENA(h) \$/0286/65/000/004/0058/0058 ACCESSION NR: AP5007414 AUTHOR: Kochnov, I. M.; Lutsenko, L. M.; Mirontseva, G. A.; Sapal'skaya, L. A.; Didenko, L. F. TITLE: A method for producing an epoxyfuran binder. Class 39, No. 168420 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 58 TOPIC TAGS: epoxy resin, transparent plastic, bonding material ABSTRACT: This Author's Certificate introduces a method for producing an aminereinforced epoxyfuran binder by combining epoxy and furan resins. By using resorcinofurfurol resin as the furan resin, these binders may be used in the production of transparent plastics with good mechanical properties and high thermal stability, ASSOCIATION: none SUB CODE: MT 00 ENCL: SUBMITTED: 060ct62 OTHER: 000 NO REF SOV: 000 Card 1/1

LUTSENKO, L. N., Cand Tech Sci -- (diss) "Synthesis and polymerization of isoalkylethers of alpha-chloracrylic acid and research into polymers obtained." Moscow, 1960. 15 pp; (Ministry of Higher and Secondary Specialist Education RSFER, "oscow Order of Lenin Chemical Technology Inst im D. I. Mendeleyev); 190 copies; price not given; (KL, 21-60, 125)

# POKOTILENKO, A.K., kand.med.nauk; LUTSENKO, M.A.

Morphology of the osseous capsule of the labyrinth in histological otosclerosis. Zhur. ush., nos. i gorl. bol. 23 no.4: 19-26 J1-Ag'63. (MIRA 16:10)

1. Iz Nauchno-issledovatel skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (direktor- zasluzhennyy deyatel nauki prof. A.I. Kolomiychenko). (LABYRINTH (EAR)) (OTOSCLEROSIS)

- 1. LUTSENKO, M. N.
- 2. USSR 600
- 4. Poultry
- 7. Development of poultry raising in the U.S.S.R., Piitsevodstvo, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.